

Second Half 2005 Groundwater Monitoring Report

**PALCO Company Garage
Scotia, California
Case No. 12272**

Prepared for:

PALCO



Consulting Engineers & Geologists, Inc.

812 W. Wabash
Eureka, CA 95501-2138
707/441-8855

December 2005
089097.120



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707-441-8855 • Fax 707-441-8877 • info@shn-eureka.com

Reference: 089097.120

December 9, 2005

Mr. Mark Verhey
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

Subject: Second Half 2005 Groundwater Monitoring Report PALCO Company Garage, Scotia, California; Case No. 12272

Dear Mr. Verhey:

This report is presented by SHN Consulting Engineers & Geologists, Inc. on behalf and with the approval of PALCO, and includes the results of groundwater monitoring activities conducted at the PALCO Company Garage Underground Storage Tank investigation, for the second half of 2005.

Please don't hesitate to contact me if you have any questions.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

A handwritten signature in black ink, appearing to read "Martin E. Lay".

Martin E. Lay, P.E.
Project Manager

MEL/RMR:lms

Enclosure: Report

copy w/encl: Robert Vogt, PALCO

Kasey Ashley, RWQCB, North Coast Region

Reference: 089097.120

Report of Findings and First Half 2005 Groundwater Monitoring Report

**PALCO Company Garage
Scotia, California
Case No. 12272**

Prepared for:

PALCO

Prepared by:



Consulting Engineers & Geologists, Inc.
812 W. Wabash
Eureka, CA 95501-2138
707/441-8855

December 2005

QA/QC: MEL/Mel



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Abbreviations and Acronyms

<	denotes a value that is "less than" the method detection limit.
mg/L	milligrams per Liter
mV	millivolts
ppm	parts per million
ug/L	micrograms per Liter
Ag	Silver
As	Arsenic
Ba	Barium
Be	Beryllium
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
Cd	Cadmium
Co	Cobalt
Cr	Chromium
Cu	Copper
DCO ₂	Dissolved Carbon Dioxide
DIPE	Diisopropyl Ether
DO	Dissolved Oxygen
DOT	Department of Transportation
EC	Electrical Conductivity
EPA	United States Environmental Protection Agency
ETBE	Ethyl Tertiary-Butyl Ether
Fe	Iron
HCDEH	Humboldt County Division of Environmental Health
Hg	Mercury
Mn	Manganese
Mo	Molybdenum
MSL	Mean Sea Level
MTBE	Methyl Tertiary-Butyl Ether
MW-#	Monitoring Well-#
NA	Not Analyzed
NAVD88	North American Vertical Datum 1988
Ni	Nickel
ORP	Oxidation-Reduction Potential
Pb	Lead
RAP	Remedial Action Plan
RAWP	Remedial Action Work Plan
ROWD	Report of Waste Discharge
RWQCB	California Regional Water Quality Control Board, North Coast Region
Sb	Antimony
Se	Selenium
SHN	SHN Consulting Engineers & Geologists, Inc.
TAME	Tertiary-Amyl Methyl Ether
TBA	Tertiary-Butyl Alcohol
Tl	Thallium
TPHD	Total Petroleum Hydrocarbons as Diesel
TPHG	Total Petroleum Hydrocarbons as Gasoline
UST	Underground Storage Tank
V	Vanadium
Zn	Zinc



1.0 Introduction

SHN Consulting Engineers & Geologists, Inc. (SHN) was retained by PALCO to conduct groundwater monitoring at the PALCO Company Garage in Scotia, California. This report describes the field activities for the groundwater monitoring and sampling at the site. This work was requested by the Humboldt County Division of Environmental Health (HCDEH) and the California Regional Water Quality Control Board, North Coast Region (RWQCB). This report is the culmination of the work described and agreed upon by representatives of SHN, the HCDEH, and the RWQCB.

The information in this report is presented in 5 sections. This section serves as an introduction and describes the site history and conditions, and discusses the objectives of the investigation. Section 2.0 describes the field program for the monitoring well sampling. Section 3.0 presents the results of the groundwater monitoring, and Section 4.0 presents a discussion of the findings and provides recommendations. Section 5.0 lists cited references.

1.1 Vicinity Information

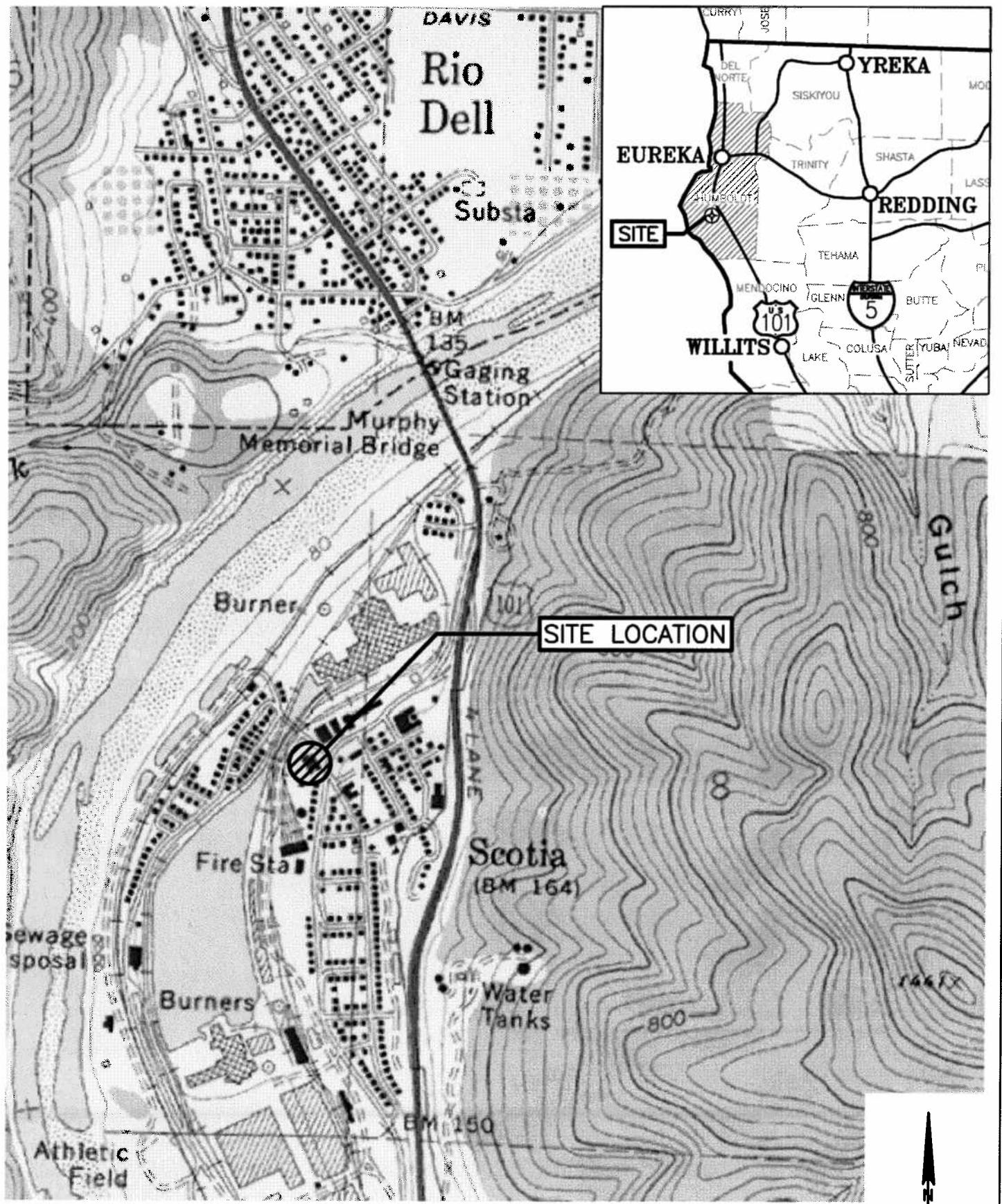
The PALCO Company Garage site is located at the northeastern corner of the intersection of Main and Bridge Streets, in the town of Scotia, Humboldt County, California (Assessor's Parcel Number 205-351-16). The Company Garage (Case No. 12272) and former Service Station (Ademar's Chevron, Case No. 12273) are part of the same facility. The entire site lies within the northeast ¼ of Section 7, Township 1 North, Range 1 East, Humboldt Base and Meridian (Figure 1).

1.2 Site History

The existing Company Garage building was historically utilized for vehicle and equipment service and repair. Five Underground Storage Tanks (USTs) were formerly located at the facility (Figure 2). A 12,000-gallon unleaded gasoline UST was installed in 1974; a 1,500-gallon diesel UST, and a 1,000-gallon leaded gasoline UST were installed in 1959; a 1,000-gallon premium unleaded gasoline UST was installed in 1972; and, a 1,000-gallon unleaded gasoline UST was installed at the facility in 1975.

On June 6, 1991, the 1,000-gallon leaded gasoline UST was removed under permit from the southeast corner of the Company Garage site. On July 27, 1998, SHN and the HCDEH observed the removal of the remaining USTs. Minimal over-excavation of soil was completed in the northernmost tank pit, which previously contained the 12,000-gallon UST. Over-excavation of contaminated soil from around the southern-most tank pits was also conducted. The tank pit locations were subsequently backfilled, and the surface was paved with asphalt concrete as directed by PALCO. Approximately 120 cubic yards of excavated soil were temporarily stockpiled on site, under permit, and in November 1999, were transported under manifest to Ben's Truck and Equipment Incorporated, located in Red Bluff, California, for disposal by bioremediation.

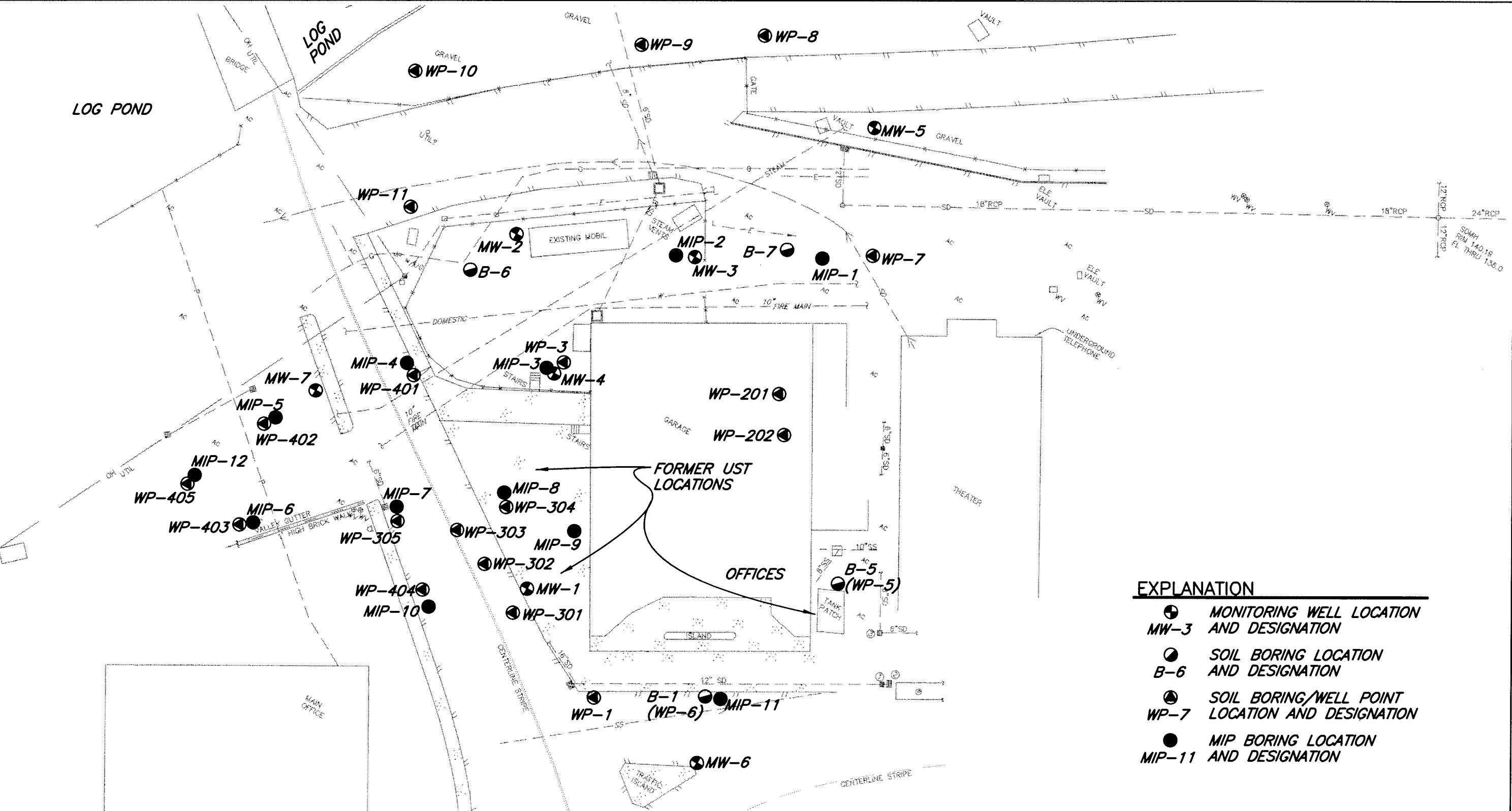
SHN conducted an initial subsurface soil and groundwater investigation at the Company Garage site in December 1999, which included the advancement of 12 exploratory borings (including 6 temporary well points using direct push methodology), and the installation of three, 2-inch monitoring wells (MW-1, MW-2, and MW-3). Soil and groundwater samples were collected, and analyzed, and the results of the investigation were reported in our December 1999 Subsurface Investigation Report of Findings (SHN, 1999).



SOURCE: SCOTIA
USGS 7.5 MINUTE
QUADRANGLE

1"=1000'±

 Consulting Engineers & Geologists, Inc.	PALCO Company Garage Scotia, California LOP #12272-Groundwater Investigation	Site Location Map SHN 089097.120
MAY 2005	089097.120-LOCATION	Figure 1



$$1'' = 40'$$



Consulting Engineers
& Geologists, Inc.

PALCO Company Garage
LOP #12272
Scotia, California

OCTOBER 2004

Site Plan

SHN 089097.120

Figure 2

The HCDEH responded, by letter dated March 23, 2000, to SHN's December 1999 report of findings. One item requested by the HCDEH was that PALCO submit a work plan to further delineate and characterize the extent of soil and groundwater contamination at the site. SHN, on behalf of PALCO, submitted the requested work plan to the HCDEH on June 12, 2000. PALCO received formal written comments relative to the work plan from the HCDEH in a letter dated August 10, 2000.

PALCO, in conformance with the modified June 12, 2000, work plan and under permit from the HCDEH, authorized SHN to complete the additional subsurface investigation and the installation of a new groundwater-monitoring well (MW-4), which occurred on November 8 and 9, 2000. Soil and groundwater samples were collected, analyzed, and the results were reported in our November 2000 Site Investigation Report of Findings (SHN, January 2001).

On May 3, 2001, representatives from PALCO, HCDEH, and SHN met to discuss the findings of the November 2000 subsurface investigation, clarify outstanding contaminant fate issues that were previously raised by HCDEH, and formulate a course of action for ongoing site investigation and monitoring. SHN submitted a meeting memorandum of understanding dated May 9, 2001, which was acknowledged by the HCDEH in a letter of May 15, 2001. The consensus that was reached at the meeting was to continue monitoring the existing wells for an additional dry and wet season, and, utilizing the data collected, determine conditions for site closure or further investigation.

PALCO and HCDEH representatives attended an additional meeting with SHN on March 7, 2002, for the purpose of discussing the year 2001 monitoring data and requirements, and alternatives for expediting site closure. The meeting minutes were submitted by SHN in an April 3, 2002 letter to the HCDEH. On April 29, 2002, SHN submitted a letter to the HCDEH, addressing the five tasks that were outlined in our April 3, 2002 letter.

By letter dated October 24, 2002, the RWQCB concurred with SHN's September 25, 2002 request to reduce the monitoring well sampling frequency and reporting to annual in March.

On March 6, 2003, PALCO submitted a Remedial Action Feasibility Study to the HCDEH for their review and comment. HCDEH concurred, by letter dated April 14, 2003, with the feasibility proposal of using hydrogen peroxide for the remedial action, and requests a Remedial Action Plan (RAP).

On June 9, 2003, PALCO submitted the RAP. HCDEH conditionally concurred with the RAP by letter dated July 16, 2003, requested clarifications, and authorized the proposed pilot study.

RAP clarification items were submitted by PALCO to HCDEH on September 5, 2003. HCDEH commented on clarification items by letter dated October 9, 2003.

PALCO responded to HCDEH comments by letter dated November 13, 2003. On December 24, 2003, PALCO submitted to HCDEH the project Remedial Action Work Plan (RAWP).

On January 8, 2004, PALCO submitted the application and documents for the project Report of Waste Discharge (ROWD) to the RWQCB.

HCDEH commented on the RAWP by letter dated February 17, 2004. On February 24, 2004, the RWQCB commented by letter to the ROWD. PALCO responded to the RWQCB with Addendum No. 1, dated April 14, 2004, to the ROWD.

On September 23 and 24, 2004, SHN supervised Fisch Environmental of Valley Springs, California in the installation of 12 membrane interface probe borings and five soil borings/temporary well points. Results were presented in the Report of Findings for Additional Site Investigation (SHN, December 2004).

On March 4, 2005, SHN supervised Fisch Environmental in the advancement of one soil boring and subsequent groundwater monitoring well installation (MW-7) at the Company Garage site (SHN, May 2005).

1.3 Geology and Hydrology

The PALCO Company Garage site is located on the south limb of the Eel River syncline on a fluvial terrace, approximately 1,000 feet southeast of the Eel River. Sedimentary deposits underlying the site consist of late Quaternary age alluvium deposited by the Eel River. According to the subsurface exploration logs for the piezometers and borings installed at the site, these deposits consist of medium-stiff to stiff clayey silt, which was moist to very moist and gray to yellowish brown in color.

Depth to groundwater ranges between 3 and 6 feet below grade at the project site. Additionally, a log pond, with a varying water surface elevation of approximately 132 feet above Mean Sea Level (MSL), is located approximately 100 feet northwest of the site. This log pond is presently assumed to act as a hydraulic barrier to groundwater movement from the source area toward downgradient receptors.

1.4 Objective and Scope of Work

The objective of the monitoring well installation was to collect data requested by the HCDEH and the RWQCB in order to further assess current site conditions.

The scope of work in this section is intended to meet the objective of this investigation. As part of this investigation, groundwater was sampled from all site-monitoring wells (MW-1 through MW-7).

The scope of work included the following items:

- Perform groundwater monitoring and sampling of all existing site monitoring wells.
- Prepare this report of findings for the groundwater-monitoring event.

2.0 Field Activities

2.1 Monitoring Well Sampling

All site wells were sampled on September 22, 2005. Prior to purging, water level measurements were collected from each well. Each well was then checked for the presence of floating product (none was observed). Water-level measurements were recorded to the nearest hundredth foot and well depth measurements were noted. Equipment that was used in taking water levels and well depth measurements was cleaned between each use, as discussed in Section 2.3. Groundwater monitoring field notes are included in Appendix A.

Each well was purged using new, disposable polyethylene bailers. During purging, Dissolved Oxygen (DO), Dissolved Carbon Dioxide (DCO₂), and the Oxidation-Reduction Potential (ORP) were measured using portable instrumentation. At least three well casing volumes were purged from each well prior to collection of groundwater samples. Periodic measurements of temperature, pH, and Electrical Conductivity (EC) were made with field equipment during purging to evaluate whether the water samples are representative of the target zone.

Groundwater samples were collected using new disposable polyethylene bailers. Samples were collected in laboratory-supplied bottles, placed in an iced cooler, and handled under proper chain-of-custody procedures. All purge water and decontamination water was placed in Department of Transportation (DOT)-approved and labeled DOT 17 E/H, 55-gallon drums and handled in accordance with procedures described in Section 2.4.

2.2 Laboratory Analysis

Each groundwater sample was analyzed for:

- Total Petroleum Hydrocarbons as Diesel (TPHD) in general accordance with EPA Method No. 8015B.
- Total Petroleum Hydrocarbons as Gasoline (TPHG), Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), and Fuel Oxygenates in general accordance with EPA Method No. 8260B.

North Coast Laboratories of Arcata, California, performed groundwater analyses.

2.3 Equipment Decontamination Procedures

All well purging and sampling equipment was cleaned prior to bringing it on site. All small equipment that required on-site cleaning was cleaned using the triple wash system. The equipment was first washed in a water solution containing Liquinox® cleaner, followed by a distilled water rinse, then by a second distilled water rinse.

2.4 Investigation-Derived Waste Management

All water produced during the well purging and sampling activities was temporarily stored on site in drums or in 5-gallon plastic buckets. The water was then placed into the wastewater collection system for treatment at the Scotia wastewater treatment plant. SHN documented the time, date, and quantity of water disposed. SHN discharged approximately 50 gallons of water into the Scotia wastewater collection system.

3.0 Groundwater Monitoring Results

3.1 Hydrogeology

Depth-to-groundwater measurements were collected on September 22, 2005. The direction of groundwater flow on September 22, 2005 was to the northwest with an approximate gradient of 0.04. Figure 3 shows groundwater contours on September 22, 2005. Groundwater elevations are presented in Table 1. Historic monitoring data are included in Appendix B.

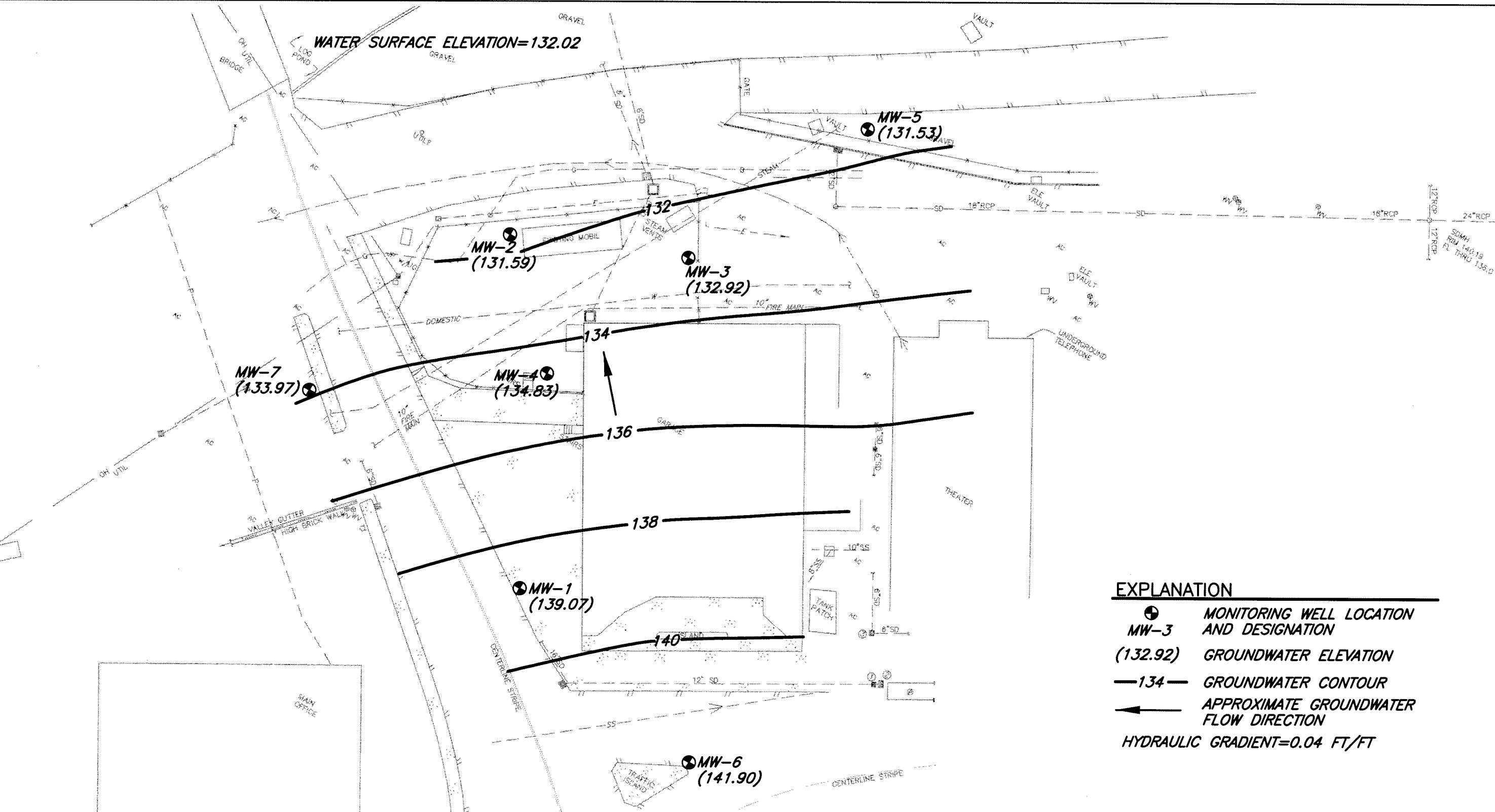


Table 1 Groundwater Elevations, September 22, 2005 PALCO Company Garage, Scotia, California			
Sample Location	Measuring Point Elevation	Depth-to-Water ²	Groundwater Elevation ¹
MW-1	142.64	3.57	139.07
MW-2	137.66	6.07	131.59
MW-3	138.29	5.37	132.92
MW-4	139.74	4.91	134.83
MW-5	136.00	4.47	131.53
MW-6	146.95	5.05	141.90
MW-7	140.89	6.92	133.97
Log Pond Surface	134.49	2.47	132.02

1. Relative to NAVD88 (North American Vertical Datum 1988)
2. Below top of casing

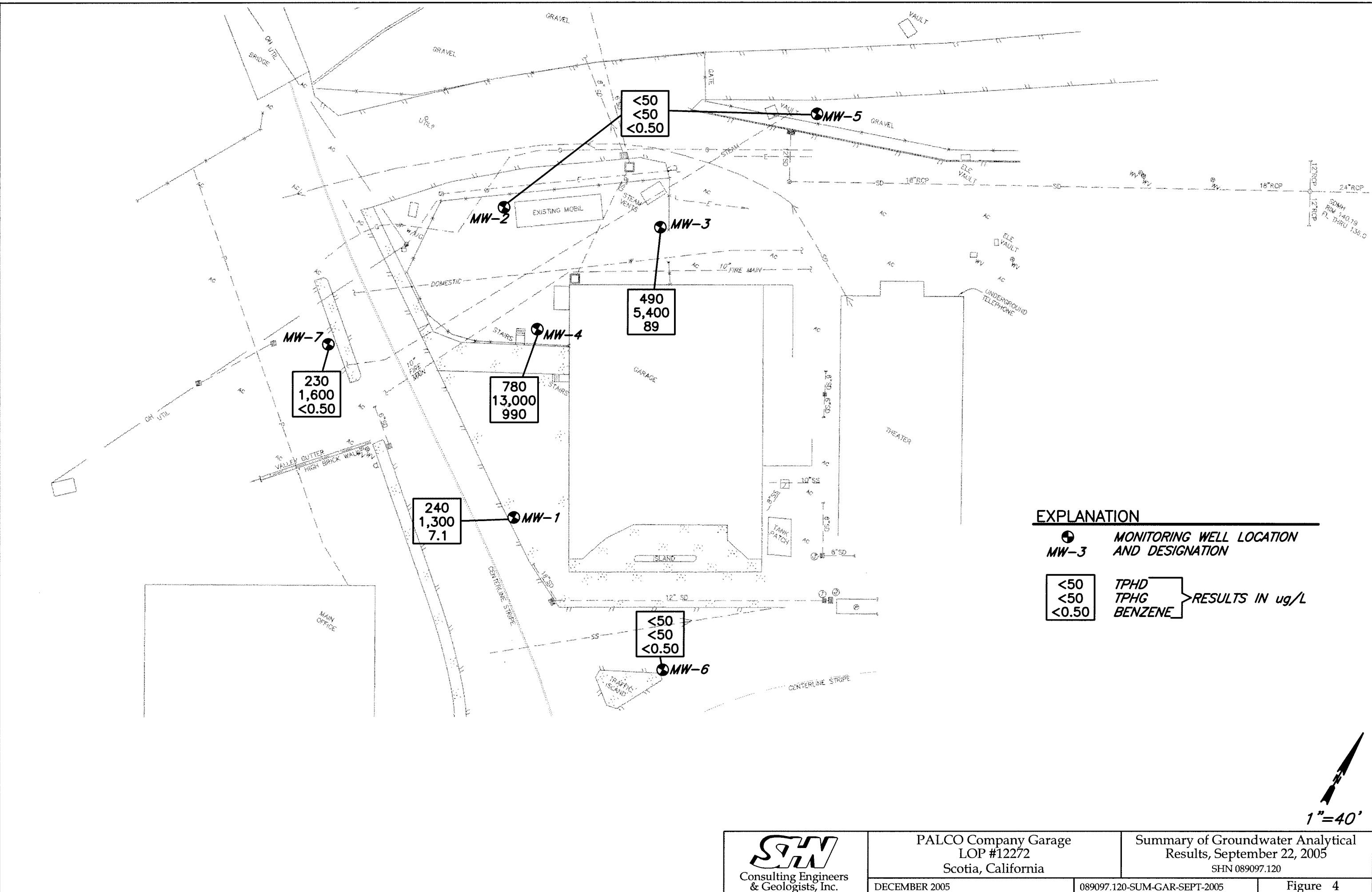
4.2 Groundwater Analytical Results

No petroleum hydrocarbons were detected in groundwater samples from MW-2, MW-5, or MW-6. Low to moderate concentrations of petroleum hydrocarbons were detected in groundwater samples from MW-1, MW-3, MW-4, and MW-7 (Table 2). Historic monitoring data are included in Appendix B. The laboratory analytical report is included in Appendix C.

Figure 4 depicts a summary of the September 22, 2005 groundwater analytical results.

Table 2 Groundwater Analytical Results, September 22, 2005 PALCO Company Garage, Scotia, California (in ug/L) ¹											
Sample Location	TPHD ²	TPHG ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁵	DIPE ⁵	ETBE ⁵	TAME ⁵	TBA ⁵
MW-1	240 ⁶	1,300 ⁷	7.1	1.8	3.9	1.9	<1.0 ⁸	<1.0	<1.0	<1.0	<10
MW-2	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10
MW-3	490 ⁶	5,400 ⁷	89	17	15	21.7	<3.0	<1.0	<1.0	<1.0	<10
MW-4	780 ⁶	13,000 ⁷	990	66	95	73	<6.0	<1.0	<1.0	<1.0	<25
MW-5	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10
MW-6	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10
MW-7	230 ⁶	1,600 ⁷	<0.50	1.4	0.74	2.71	<1.0	<1.0	<1.0	<1.0	<10

1. ug/L: micrograms per liter
2. Total Petroleum Hydrocarbons as Diesel (TPHD) analyzed in general accordance with EPA Method No. 8015B
3. Total Petroleum Hydrocarbons as Gasoline (TPHG) analyzed in general accordance with EPA Method No. 8260B
4. Benzene (B), Toluene (T), Ethylbenzene (E), total Xylenes (X) analyzed in general accordance with EPA Method No. 8260B
5. Methyl Tertiary-Butyl Ether (MTBE), Diisopropyl Ether (DIPE), Ethyl Tertiary-Butyl Ether (ETBE), Tertiary-Amyl Methyl Ether (TAME) and Tertiary-Butyl Alcohol (TBA) analyzed in general accordance with EPA Method No. 8260B
6. Contain some material lighter than diesel; however, some of this material extends into the diesel range of molecular weights. The samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.
7. The gasoline values include the reported gasoline components and additives in addition to other peaks in the gasoline range.
8. <: Denotes a value that is "less than" the method detection limit.



4.3 Natural Attenuation Parameters

Monitoring for indicators of biodegradation was performed on groundwater from site wells during the September 2005 monitoring event. DO concentrations ranged from 0.90 parts per million (ppm) in monitoring well MW-4 to 2.05 ppm in monitoring well MW-5. DO concentrations in site wells are marginally sufficient to support aerobic biodegradation. DCO₂ concentrations ranged from 80 ppm in monitoring well MW-6 to 350 ppm in monitoring well MW-4, and indicate that biodegradation is occurring. ORP measurements ranged from -145 millivolts (mV) in monitoring well MW-4 to 32 mV in monitoring well MW-6. The ORP measurement results indicate mildly reducing conditions are present in the majority of the wells. Measurement results are presented in Table 3. Historic measurement results are included in Appendix B.

Table 3 DO, DCO ₂ , and ORP Measurement Results, September 22, 2005 PALCO Company Garage, Scotia, California			
Sample Location	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵
MW-1	0.94	200	-120
MW-2	1.08	140	-64
MW-3	1.28	180	-138
MW-4	0.90	350	-145
MW-5	2.05	120	-48
MW-6	0.99	80	32
MW-7	1.02	180	-131

1. DO: Dissolved Oxygen, field measured using portable instrumentation.
2. ppm: Measurement concentration, in parts per million.
3. DCO₂: Dissolved Carbon Dioxide, field measured using a field test kit.
4. ORP: Oxidation-Reduction Potential measured using portable instrumentation.
5. mV: millivolts

5.0 Discussion and Recommendations

Low to moderate concentrations of petroleum hydrocarbons were detected in groundwater from monitoring wells MW-1, MW-3, MW-4, and MW-7, with the highest concentrations in MW-4. Petroleum hydrocarbons were not detected in the groundwater samples from MW-2, MW-5, or MW-6 above the method detection limits.

Biannual groundwater monitoring will continue at the site. The next monitoring and sampling event is scheduled for March 2006.

PALCO will respond by February 1, 2006, regarding revisions to, or implementation of the HCDEH-and RWQCB-approved remedial action, as per the May 12, 2005, HCDEH letter (from Leanne Schroyer).

6.0 References Cited

- SHN Consulting Engineers & Geologists, Inc. (2000). *December 1999 Subsurface Investigation Report of Findings, PALCO Company Garage, Scotia, CA, HCDEH LOP #12272*. Eureka: SHN.
- . (2001). *November 2000 Site Investigation Report of Findings, PALCO Company Garage, Scotia, CA, HCDEH LOP #12272*. Eureka: SHN.
- .(2003). *Remedial Action Work Plan PALCO Company Garage, Scotia, California; LOP #12272*. Eureka: SHN.
- .(December 2004). *Report of Findings for Additional Site Investigation PALCO Company Garage, Scotia, California; LOP #12272*. Eureka: SHN.
- .(May 2005). *Report of Findings and First Half 2005 Groundwater Monitoring Report, PALCO Company Garage, Scotia, California; LOP #12272*. Eureka: SHN.

Appendix A

Groundwater Monitoring Field Sheets



CONSULTING ENGINEERS & GEOLOGISTS, INC.

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DAILY FIELD REPORT

JOB NO 089097.120

Page 1 of 12

PROJECT NAME <i>PALCO Company Garage</i>	CLIENT/OWNER <i>PALCO</i>	DAILY FIELD REPORT SEQUENCE NO <i>1</i>
GENERAL LOCATION OF WORK <i>Sacramento, CA</i>	OWNER/CLIENT REPRESENTATIVE <i>Bob Vogt</i>	DATE <i>9-22-05</i> DAY OF WEEK <i>Thursday</i>
TYPE OF WORK <i>Quadrat Sampling</i>	WEATHER <i>Foggy overcast to clear</i>	PROJECT ENGINEER/ SUPERVISOR <i>Martin E. Lat</i>
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN <i>David R. Paine</i>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

- 0857 Arrived at site, removed lids and caps on all 7 wells, mw-2 had a truck parked over it had to get it moved.
- 0934 I started taking water level readings decommissioning the sounder after each well by scrubbing it with liquid nail then rinsing it with DI water.
- 0958 I started taking DO Readings.
- 1054 I started purging mw-2 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1113 I started purging mw-5 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1136 I started purging mw-6 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1200 I started purging mw-7 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1230 I sampled mw-2 secured well with cap and lid.
- 1240 I started purging mw-1 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1330 I sampled mw-5, secured well with cap and lid.
- 1331 I started purging mw-3 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1400 I sampled mw-6, ~~mw-6~~ secured well with cap and lid.
- 1416 I started purging mw-4 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
- 1430 I sampled mw-7, secured well with cap and lid.
- 1455 I sampled mw-1, secured well with cap and lid.
- 1505 I sampled mw-3, secured well with cap and lid.
- 1515 I sampled mw-4,
- 1536 OFF SITE.

COPY GIVEN TO:

REPORTED BY:

David R. Paine



CONSULTING ENGINEERS & GEOLOGISTS, INC.

480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
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DAILY FIELD REPORT

JOB NO 089097.120

Page 2 of 12

PROJECT NAME <i>PALCO Company Garage</i>	CLIENT/OWNER <i>PALCO</i>	DAILY FIELD REPORT SEQUENCE NO <i>1</i>	
GENERAL LOCATION OF WORK <i>Scotia, CA</i>	OWNER/CLIENT REPRESENTATIVE <i>Bob Vogt</i>	DATE <i>9-22-05</i>	DAY OF WEEK <i>Thursday</i>
TYPE OF WORK <i>Quarterly Sampling</i>	WEATHER <i>Clear</i>	PROJECT ENGINEER/ SUPERVISOR <i>Martin E. Lay</i>	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN <i>David R. Paine</i>	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

Note: All decor and sewage water was caught then poured into a 50 gal plastic drum that I brought in the truck then transported down to the old Bertarini Laundry building and dumped into the drain that leads to the sewage treatment plant, about 50 gallons.

COPY GIVEN TO:

REPORTED BY:

David R. Paine



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Groundwater Elevations

Job No.: 089097.120

Name:

Client: PALCO

Date:

Location: PALCO Company Garage, Scotia, CA

Weather: Foggy overcast



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-enr.com

EQUIPMENT CALIBRATION SHEET

Name:	<u>David R. Paine</u>			
Project Name:	<u>PALCO Company Garage</u>			
Reference No.:	<u>089097.120</u>			
Date:	<u>9-22-05</u>			
Equipment:	<input checked="" type="checkbox"/> pH & EC	<input type="checkbox"/> PID	<input type="checkbox"/> GTCO ₂	<input type="checkbox"/> GTTEL
	<input type="checkbox"/> Turbidity	<input checked="" type="checkbox"/> Other	<u>Dissolved Oxygen Meter YS195</u>	

Description of Calibration Procedure and Results:

pH & EC meter is calibrated using a 2 buffer method with 7.01 and 4.01, the EC (conductivity) is set at 1413 uS.

DO meter is self calibrating with the Altimeter set at 1.



Water Sampling Data Sheet

Project Name:	<u>PALCO Company Garage</u>	Date/Time:	<u>9-22-05</u>
Project No.:	<u>089097.120</u>	Sampler Name:	<u>David R. Pain</u>
Location:	<u># Sciotra, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-1</u>	Weather	<u>Foggy overcast to clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NH</u>	Key Needed:	<u>YES</u> <u>Dolphin</u>

$$\begin{array}{l} \text{Total Well Depth} \quad \text{Initial Depth to} \\ (\text{feet}) \quad \text{Water (feet)} \end{array} = \begin{array}{l} \text{Height of Water} \\ \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$

<u>19.80</u>	<u>3.57</u>	<u>=</u>	<u>16.23</u>	<u>x</u>	<u>0.163</u>	<u>=</u>	<u>2.65</u>
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Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
<u>1034</u>	<u>0.94</u>						<u>0 gal.</u>	
<u>1240</u>		<u>200</u>	<u>-130</u>				<u>0.25 gal.</u>	
<u>1250</u>				<u>698</u>	<u>71°</u>	<u>6.45</u>	<u>2.25 gal.</u>	
<u>1257</u>	No Flow			<u>664</u>	<u>69.6°</u>	<u>6.40</u>	<u>5.50 gal</u>	
<u>1303</u>	Thru cell			<u>622</u>	<u>69.2°</u>	<u>6.36</u>	<u>3 gal.</u>	
<u>310</u>				<u>591</u>	<u>68.4°</u>	<u>6.34</u>	<u>10.25 gal.</u>	
<u>1320</u>				<u>580</u>	<u>68°</u>	<u>6.33</u>	<u>13.25 gal.</u>	
<u>1455</u>	<u>Sample Time</u>							

Purge Method: Hand BailTotal Volume Removed: 13.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
<u>MW-1</u>	<u>3 - 40ml UOH's</u>	<u>YES HCl</u>	<u>NCL</u>	<u>8260 list 1</u>
<u>MW-1</u>	<u>2 - 60ml UOH's</u>	<u>None</u>	<u>NCL</u>	<u>TPH</u>

Well Condition: GoodRemarks: Purge water has an edgeRecharged to 3.80 at sample time



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Water Sampling Data Sheet

Project Name: PALCO Company Garage Date/Time: 9-22-05
Project No.: 089097.120 Sampler Name: David R. Painter
Location: # Sciotra, CA Sample Type: Ground water
Well #: MW-2 Weather: Foggy overcast to clear
Hydrocarbon Thickness/Depth (feet): NA Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.95	-	6.07	=	8.88	x	0.163	=	1.45

Purge Method: Hand Bail

Total Volume Removed: 4.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-2	3 - 40ml UOHS	YES HCl	NCL	E260 list 1
MW-2	2 - 60ml UOHS	None	NCL	TPHD

Well Condition: Good

Remarks:

Recharged to 6.13 at sample time



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Water Sampling Data Sheet

Project Name:	<u>PALCO Company Garage</u>	Date/Time:	<u>9-22-05</u>
Project No.:	<u>089097.120</u>	Sampler Name:	<u>David R. Pain</u>
Location:	<u># Scotia, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-3</u>	Weather	<u>Foggy overcast to clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NH</u>	Key Needed:	<u>YES Dolphin</u>

$$\begin{array}{l} \text{Total Well Depth} \quad - \quad \text{Initial Depth to} \\ \text{(feet)} \qquad \qquad \qquad \text{Water (feet)} \quad = \quad \text{Height of Water} \\ \boxed{14.95} \quad - \quad \boxed{5.37} \quad = \quad \boxed{9.58} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array} = \boxed{1.56}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1041	1.28						0 gal.	
1337		180	-138				0.25 gal.	
1346				662	83.3°	6.37	1.75 gal.	
1350	No Flow			730	82.6°	6.42	3.25 gal	
1354	Thru cell			728	82.8°	6.40	4.25 gal.	
357				785	81.8°	6.38	6.25 gal.	
1505	Sample Time							

Purge Method: Hand BailTotal Volume Removed: 6.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	3 - 40ml UOH's	YES HCl	NCL	E260 list 1
MW-3	2 - 60ml UOH's	None	NCL	TPHD

Well Condition: GoodRemarks: Purge water has an odor and a sheen
Recharged to 6.12 at sample time



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Water Sampling Data Sheet

Project Name:	<u>PALCO Company Garage</u>	Date/Time:	<u>9-22-05</u>
Project No.:	<u>089097.120</u>	Sampler Name:	<u>David R. Pain</u>
Location:	<u>Eureka, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-4</u>	Weather	<u>Foggy overcast to clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>	Key Needed:	<u>YES</u> <u>Dolphin</u>

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	×	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
<u>15.05</u>	-	<u>4.91</u>	=	<u>10.14</u>	×	<u>0.163</u>	=	<u>1.65</u>

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
<u>1048</u> <u>0.90</u>							<u>0 gal.</u>	
<u>1416</u>		<u>350</u>	<u>-145</u>				<u>0.25 gal.</u>	
<u>1427</u> ↓				<u>1202</u>	<u>67.2°</u>	<u>6.45</u>	<u>1.75 gal.</u>	
<u>1431</u> No Flow				<u>1220</u>	<u>67.1°</u>	<u>6.57</u>	<u>3.50 gal</u>	
<u>1435</u> thru cell				<u>1225</u>	<u>67.2°</u>	<u>6.55</u>	<u>5 gal.</u>	
<u>440</u>				<u>1225</u>	<u>67°</u>	<u>6.59</u>	<u>6.25 gal.</u>	
<u>1515</u>	<u>Sample Time</u>							

Purge Method: Hand BailTotal Volume Removed: 6.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
<u>MW-4</u>	<u>3 - 40ml UOH's</u>	<u>YES HCl</u>	<u>NCL</u>	<u>8260 list 1</u>
<u>MW-4</u>	<u>2 - 60ml UOH's</u>	<u>None</u>	<u>NCL</u>	<u>TPHD</u>

Well Condition: GoodRemarks: Purge water has an odor, and a sheen
Recharged to 5.88 at sample time



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Water Sampling Data Sheet

Project Name:	<u>PALCO Company Garage</u>	Date/Time:	<u>9-22-05</u>
Project No.:	<u>089097.120</u>	Sampler Name:	<u>David R. Pain</u>
Location:	<u>8 Scotia, CA</u>	Sample Type:	<u>Ground water</u>
Well #:	<u>MW-5</u>	Weather	<u>Foggy overcast to clear</u>
Hydrocarbon Thickness/Depth (feet):	<u>NH</u>	Key Needed:	<u>YES Dolphin</u>

$$\begin{array}{l} \text{Total Well Depth} \quad - \quad \text{Initial Depth to} \\ \text{(feet)} \qquad \qquad \qquad \text{Water (feet)} \quad = \quad \text{Height of Water} \\ \boxed{1391} \quad - \quad \boxed{4.47} \quad = \quad \boxed{9.44} \end{array} \quad \times \quad \begin{array}{l} 0.163 \text{ gal/ft (2-inch well)} / \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} \quad = \quad \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array} \quad = \quad \boxed{1.54}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1010	(2.05)						0 gal.	
1113		120	-48				0.25 gal.	
1121	↓			664	81.0°	6.24	1.25 gal.	
1126	No Flow			672	80.6°	6.27	3.25 gal	
1130	Thru cell			687	80.2°	6.27	4.75 gal.	
1330	Sample Time							

Purge Method: Hand BailTotal Volume Removed: 4.75 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-5	3 - 40ml UOH's	YES HCl	NCL	E260 list 1
MW-5	2 - 60ml UOH's	None	NCL	TPHD

Well Condition: Good

Remarks:

Recharged to 5.45 at sample time



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Water Sampling Data Sheet

Project Name:	<u>PALCO Company Garage</u>		Date/Time:	<u>9-22-05</u>	
Project No.:	<u>089097.120</u>		Sampler Name:	<u>David R. Pain</u>	
Location:	<u>Eureka, CA</u>		Sample Type:	<u>Ground water</u>	
Well #:	<u>MW-6</u>		Weather	<u>Foggy overcast to clear</u>	
Hydrocarbon Thickness/Depth (feet):	<u>NA</u>		Key Needed:	<u>YES Dolphin</u>	

Total Well Depth (feet)	Initial Depth to Water (feet)	=	Height of Water Column (feet)	×	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
<u>13.78</u>	<u>5.05</u>	<u>=</u>	<u>8.73</u>	<u>×</u>	<u>0.163</u>	<u>=</u>	<u>1.42</u>

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
<u>1020</u>	<u>0.99</u>						<u>0 gal.</u>	
<u>1136</u>	<u>80</u>	<u>32</u>					<u>0.25 gal.</u>	
<u>1145</u>				<u>400</u>	<u>69.6°</u>	<u>6.15</u>	<u>1.50 gal.</u>	
<u>1150</u>	<u>No Flow</u>			<u>390</u>	<u>68.6°</u>	<u>6.11</u>	<u>3 gal</u>	
<u>1155</u>	<u>Thru cell</u>			<u>391</u>	<u>68.6°</u>	<u>6.15</u>	<u>4.50 gal.</u>	
<u>1400</u>	<u>Sample Time</u>							

Purge Method: Hand Bail

Total Volume Removed: 4.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
<u>MW-6</u>	<u>3 - 40ml UOH's</u>	<u>YES HCl</u>	<u>NCL</u>	<u>E260 list 1</u>
<u>MW-6</u>	<u>2 - 60ml UOH's</u>	<u>None</u>	<u>NCL</u>	<u>TPH</u>

Well Condition: Good

Remarks:

Recharged to 5.07 at sample time



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Water Sampling Data Sheet

Project Name: PALCO Company Garage Date/Time: 9-22-05
Project No.: 089097.120 Sampler Name: David R. Paini
Location: # Scatira, CA Sample Type: Ground water
Well #: MW-7 Weather: Foggy overcast to clear
Hydrocarbon Thickness/Depth (feet): NA Key Needed: YES Dolphin

$$\frac{\text{Total Well Depth (feet)}}{14.05} - \frac{\text{Initial Depth to Water (feet)}}{6.92} = \frac{\text{Height of Water Column (feet)}}{7.13} \times \frac{0.163 \text{ gal/ft (2-inch well) / } 0.653 \text{ gal/ft (4-inch well)}}{0.163} = \frac{1 \text{ Casing Volume (gal)}}{1.16}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1027	1.02						0 gal.	
1200		180	-131				0.25 gal.	
1209	↓			837	74.5°	6.48	1.25 gal.	
1214	No Flow			819	74.6°	6.53	2.50 gal	
1219	Thru cell			795	74.2°	6.46	3.50 gal.	
1450	Sample	Time						

Purge Method: Hand Bail

Total Volume Removed: 3.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-7	3 - 40ml UOH's	YES HCl	NCL	E260 list 1
MW-7	2 - 60ml UOH's	None	NCL	TPH/D

Well Condition: Good

Remarks: pupae water has an odor

Recharged to 6.94 at sample time

Appendix B

Historic Monitoring Data

Table B-1
Historic Groundwater Elevation Data
PALCO Company Garage, Scotia, California

Well Number	Date of Reading	Measurement Point Elevation (feet ¹)	Depth to Groundwater (feet)	Groundwater Surface Elevation (feet)
MW-1	12/22/1999	142.64	3.50	139.14
	1/28/2000		3.34	139.30
	2/25/2000		3.21	139.43
	3/22/2000		3.42	139.22
	4/24/2000		3.43	139.21
	5/26/2000		3.51	139.13
	6/23/2000		3.58	139.06
	7/21/2000		3.63	139.01
	8/24/2000		3.57	139.07
	9/28/2000		3.60	139.04
	10/24/2000		4.02	138.62
	11/27/2000		3.66	138.98
	12/29/2000		3.64	139.00
	1/25/2001		3.31	139.33
	2/26/2001		3.18	139.46
	3/26/2001		3.53	139.11
	4/27/2001		3.52	139.12
	5/25/2001		3.52	139.12
	7/2/2001		3.54	139.06
	7/26/2001		3.55	139.09
	8/27/2001		3.59	139.05
	9/26/2001		3.65	138.99
	10/26/2001		3.80	138.84
	11/26/2001		3.31	139.33
	12/27/2001		3.27	139.37
	1/28/2002		3.49	139.15
	2/22/2002		3.39	139.25
	3/29/2002		3.48	139.16
	4/26/2002		3.68	138.96
	5/28/2002		3.56	139.08
	6/26/2002		3.56	139.08
	3/27/2003		3.31	139.33
	3/25/2004		3.48	139.16
	3/23/2005		2.97	139.67
	9/22/2005		3.57	139.07

Table B-1
Historic Groundwater Elevation Data
PALCO Company Garage, Scotia, California

Well Number	Date of Reading	Measurement Point Elevation (feet ¹)	Depth to Groundwater (feet)	Groundwater Surface Elevation (feet)
MW-2	12/22/1999	137.66	5.51	132.15
	1/28/2000		5.45	132.21
	2/25/2000		5.37	132.29
	3/22/2000		5.72	131.94
	4/24/2000		5.73	131.93
	5/26/2000		5.89	131.77
	6/23/2000		6.16	131.50
	7/21/2000		6.20	131.46
	8/24/2000		6.22	131.44
	9/28/2000		6.26	131.40
	10/24/2000		6.17	131.49
	11/27/2000		6.04	131.62
	12/29/2000		5.81	131.85
	1/25/2001		5.13	132.53
	2/26/2001		5.28	132.38
	3/26/2001		5.61	132.05
	4/27/2001		5.80	131.86
	5/25/2001		6.06	131.60
	7/2/2001		6.02	131.64
	7/26/2001		6.16	131.50
	8/27/2001		6.25	131.41
	9/26/2001		6.26	131.40
	10/26/2001		6.29	131.37
	11/26/2001		5.30	132.36
	12/27/2001		5.51	132.15
	1/28/2002		5.55	132.11
	2/22/2002		5.47	132.19
	3/29/2002		5.62	132.04
	4/26/2002		5.84	131.82
	5/28/2002		5.87	131.79
	6/26/2002		6.10	131.56
	3/27/2003		5.20	132.46
	3/25/2004		5.75	131.91
	3/23/2005		4.96	132.70
	9/22/2005		6.07	131.59

Table B-1
Historic Groundwater Elevation Data
PALCO Company Garage, Scotia, California

Well Number	Date of Reading	Measurement Point Elevation (feet ¹)	Depth to Groundwater (feet)	Groundwater Surface Elevation (feet)
MW-3	12/22/1999	138.29	5.31	132.98
	1/28/2000		5.12	133.17
	2/25/2000		5.06	133.23
	3/22/2000		5.33	132.96
	4/24/2000		5.24	133.05
	5/26/2000		5.24	133.05
	6/23/2000		5.31	132.98
	7/21/2000		5.37	132.92
	8/24/2000		5.35	132.94
	9/28/2000		5.39	132.90
	10/24/2000		5.37	132.92
	11/27/2000		5.44	132.85
	12/29/2000		5.44	132.85
	1/25/2001		4.79	133.50
	2/26/2001		5.02	133.27
	3/26/2001		5.38	132.91
	4/27/2001		5.35	132.94
	5/25/2001		5.42	132.87
	7/2/2001		5.34	132.95
	7/26/2001		5.47	132.82
	8/27/2001		5.45	132.84
	9/26/2001		5.49	132.80
	10/26/2001		5.48	132.81
	11/26/2001		5.08	133.21
	12/27/2001		5.24	133.05
	1/28/2002		5.23	133.06
	2/22/2002		5.11	133.18
	3/29/2002		5.24	133.05
	4/26/2002		5.21	133.08
	5/28/2002		5.21	133.08
	6/26/2002		5.27	133.02
	3/27/2003		4.87	133.42
	3/25/2004		5.00	133.29
	3/23/2005		4.63	133.66
	9/22/2005		5.37	132.92

Table B-1
Historic Groundwater Elevation Data
PALCO Company Garage, Scotia, California

Well Number	Date of Reading	Measurement Point Elevation (feet ¹)	Depth to Groundwater (feet)	Groundwater Surface Elevation (feet)
MW-4	11/27/2000	139.74	5.23	134.51
	12/29/2000		5.07	134.67
	1/25/2001		4.73	135.01
	2/26/2001		4.55	135.19
	3/26/2001		4.95	134.79
	4/27/2001		4.78	134.96
	5/25/2001		5.21	134.53
	7/2/2001		5.03	134.71
	7/26/2001		5.22	134.52
	8/27/2001		5.20	134.54
	9/26/2001		5.22	134.52
	10/26/2001		5.24	134.50
	11/26/2001		4.83	134.91
	12/27/2001		4.64	135.10
	1/28/2002		4.90	134.84
	2/22/2002		4.73	135.01
	3/29/2002		4.89	134.85
	4/26/2002		4.97	134.77
	5/28/2002		4.86	134.88
	6/26/2002		5.02	134.72
	3/27/2003		4.51	135.23
	3/25/2004		4.85	134.89
	3/23/2005		4.37	135.37
	9/22/2005		4.91	134.83

Table B-1
Historic Groundwater Elevation Data
PALCO Company Garage, Scotia, California

Well Number	Date of Reading	Measurement Point Elevation (feet ¹)	Depth to Groundwater (feet)	Groundwater Surface Elevation (feet)
MW-5	3/25/2004	136.00	4.35	131.65
	3/23/2005		3.92	132.08
	9/22/2005		4.47	131.53
MW-6	3/25/2004	146.95	5.09	141.86
	3/23/2005		4.87	142.08
	9/22/2005		5.05	141.90
MW-7	3/23/2005	140.89	6.23	134.66
	9/22/2005		6.92	133.97
Pond Surface Elevation	4/27/2001	134.49	2.27	132.22
	5/25/2001		2.28	132.21
	7/26/2001		2.37	132.12
	8/27/2001		2.37	132.12
	9/26/2001		2.34	132.15
	10/26/2001		2.36	132.13
	11/26/2001		2.24	132.25
	12/27/2001		2.30	132.19
	1/28/2002		2.29	132.20
	2/22/2002		2.27	132.22
	3/26/2002		2.30	132.19
	3/29/2002		2.33	132.16
	4/26/2002		2.34	132.15
	5/28/2002		2.32	132.17
	6/26/2002		2.33	132.16
	3/27/2003		2.21	132.28
	3/25/2004		2.42	132.07
	3/23/2005		2.32	132.17
	9/22/2005		2.47	132.02

1. Elevation Datum NAVD88 (North American Vertical Datum 1988)

Table B-2

**Historic Groundwater Analytical Results
PALCO Company Garage, Scotia, California**
(in $\mu\text{g/L}$)¹

Sample Location	Date	TPHMO ²	TPHD ²	TPHG ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁵	DIPEx ⁶	ETBE ⁵	TAME ⁵	TBA ⁵	Methanol ⁵	Ethanol ⁵	Pb ⁶	
MW-1	12/23/99	NA ⁷	200	1,700	27	6.3	58	7.6	1.1	<0.50 ⁸	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
	03/22/00	NA	140	4,200	92	49	130	14	<100	NA	NA	NA	NA	NA	NA	NA	NA
	06/23/00	NA	73	1,200	8.7	2.4	19	3.2	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20
	09/28/00	NA	<50	840	5.5	1.3	5.1	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20
	12/29/00	NA	<50	960	8.9	1.9	11	2.7	0.53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20
	03/26/01	NA	87	1,100	10	2.2	13	2.9	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20
	07/02/01	NA	57	850	4.7	1.3	3.2	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20
	09/26/01	NA	75	860	6.3	1.5	3.4	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20
	12/27/01	NA	65	1,700	17	3.4	13	3.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20
	03/29/02	NA	<50	1,400	16	2.9	10	2.6	0.78	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20
	06/26/02	NA	99	1,400	10	2.7	6.3	3.46	0.52	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20
	03/27/03	NA	170	3,500	32	4.1	18	5.04	0.80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20
	03/25/04	<170	210	2,300	10	3.4	6.3	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20
	03/23/05	NA	540	3,700	13	4.8	13	6.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10
	09/22/05	NA	240	1,300	7.1	1.8	3.9	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10
MW-2	12/23/99	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0
	03/22/00	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	<3.0	NA	NA	NA	NA	NA	NA	NA	<10
	06/23/00	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	09/28/00	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	12/29/01	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	03/26/01	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	07/02/01	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	09/26/01	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	12/27/01	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	03/29/02	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	06/26/02	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	03/27/03	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	03/25/04	<170	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	03/23/05	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10
	09/22/05	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<10

Table B-2

**Historic Groundwater Analytical Results
PALCO Company Garage, Scotia, California
(in ug/L¹)**

Sample Location	Date	TPHMO ²	TPHD ²	TPHC ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁵	DPE ⁵	ETBE ⁵	TAME ⁵	TBA ⁵	Methanol ⁵	Ethanol ⁵	Pb ⁶
MW-3	12/23/99	NA	910	4,400	100	18	61	34.9	<0.50	<0.50	<0.50	<0.50	5.9	<50	<20	<5.0
	03/22/00	NA	190	6,500	320	87	91	69	<200	NA	NA	NA	NA	NA	NA	NA
	06/23/00	NA	230	4,200	100	15	39	31	<1.0	<0.50	<0.50	<0.50	5.6	<50	<50	<20
	09/28/00	NA	140	6,300	160	20	30	40	<0.50	<0.50	<0.50	<0.50	7.6	<5.0	<5.0	<20
	12/29/01	NA	120	4,400	97	13	43	27	<0.50	<0.50	<0.50	<0.50	7.4	<50	<5.0	<20
	03/26/01	NA	310	5,000	120	18	44	33	<1.0	<1.0	<1.0	<1.0	<10	<100	<10	<20
	07/02/01	NA	220	4,800	120	17	21	29	<1.0	<1.0	<1.0	<1.0	<10	<100	<10	<20
	09/26/01	NA	160	5,000	130	17	22	32	<1.0	<1.0	<1.0	<1.0	<10	<100	<10	<20
	12/27/01	NA	210	6,700	180	20	60	32.7	0.95	<1.0	<1.0	<1.0	14	<50	<5.0	<20
	03/29/02	NA	300	4,800	150	20	37	27.4	<1.0	<2.0	<2.0	<2.0	<20	<50	<5.0	<10
	06/26/02	NA	460	5,400	140	28	35	46.9	<1.0	<2.0	<2.0	<2.0	<20	<50	<5.0	<10
	03/27/03	NA	210	5,100	110	16	34	22.2	<1.0	<2.0	<2.0	<2.0	<20	<50	<5.0	<10
	03/25/04	230	4,400	47	14	33	20.8	<4.0	<1.0	<1.0	<1.0	<1.0	<20	NA	NA	<10
	03/23/05	NA	550	4,600	78	15	31	19.6	<10	<10	<10	<10	<10	NA	NA	NA
	09/22/05	NA	490	5,400	89	17	15	21.7	<3.0	<1.0	<1.0	<1.0	<10	NA	NA	NA
MW-4	11/14/00	NA	290	6,500	450	44	130	110	7.6	<2.0	<2.0	<2.0	27	<200	<20	<20
	12/29/01	NA	150	8,200	640	53	190	100	6.0	<1.0	<1.0	<1.0	23	<100	<10	<20
	03/26/01	NA	230	11,000	760	75	240	120	5.3	<2.0	<2.0	<2.0	28	<200	<20	<20
	07/02/01	NA	220	9,700	740	72	180	110	5.9	<5.0	<5.0	<5.0	<50	<500	<50	<20
	09/26/01	NA	210	8,700	710	63	160	100	5.3	<2.5	<2.5	<2.5	<25	<250	<25	<20
	12/27/01	NA	240	11,000	920	57	160	78	9.6	<5.0	<5.0	<5.0	<50	<50	<5.0	<20
	03/29/02	NA	330	9,000	860	68	160	77	5.4	<10	<10	<10	<100	<50	<5.0	<10
	06/26/02	NA	560	10,000	690	69	160	101	5.9	<5.0	<5.0	<5.0	<50	<500	<50	<20
	03/27/03	NA	360	13,000	960	78	200	98	<5.0	<10	<10	<10	<100	<50	<5.0	<10
	03/25/04	<170	360	12,000	820	70	120	71	<3.5	<1.0	<1.0	<1.0	<20	NA	NA	<10
	03/23/05	NA	900	13,000	1,100	73	150	73	<8.0	<1.0	<1.0	<1.0	<32	NA	NA	NA
	09/22/05	NA	780	13,000	990	66	95	73	<6.0	<1.0	<1.0	<1.0	<25	NA	NA	NA
MW-5	03/25/04	<170	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<20	NA	NA	<10
	03/23/05	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	NA
	09/22/05	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	NA
	03/25/04	<170	64	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<20	NA	NA	<10
	03/23/05	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	NA
	09/22/05	NA	<50	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	NA
MW-6	03/25/04	<170	200	1,500	3.5	2.6	2.0	3.23	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<10
	09/22/05	NA	230	1,600	<0.50	1.4	0.74	2.71	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<10

1. ug/L: micrograms per Liter

2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO) and as Diesel (TPHHD) analyzed in general accordance with EPA Method No. 8015B.

3. Total Petroleum Hydrocarbons as Gasoline (TPHC) analyzed in general accordance with EPA Method No. 8260B.

4. Benzene (B), Toluene (T), Ethylbenzene (E), and total Xylenes (X) analyzed in general accordance with EPA Method No. 8260B.

5. Methyl Tertiary-Butyl Ether (MTBE), Diisopropyl Ether (DPE), Ethyl Tertiary-Butyl Ether (ETBE), Tertiary-Amyl Methyl Ether (TAME), Tertiary-Butyl Alcohol (TBA), Methanol, and Ethanol analyzed in general accordance with EPA Method No. 8260B.

6. Pb: Lead analyzed in general accordance with EPA Method No. 200.9.

7. NA: Not Analyzed

8. < : Denotes a value that is "less than" the method detection limit.

Table B-3

Historical Volatile Organic Compound Analysis¹
PALCO Company Garage, Scotia, California

(in ug/L)²

Sample Location	Date	2,2-Dichloropropane	Isopropylbenzene	n-Propylbenzene	1,3,5-Trimethylbenzene	tert-Butylbenzene	1,2,4-Trimethylbenzene	Sec-Butylbenzene	4-Isopropyltoluene	n-Butylbenzene	Naphthalene
MW-1	12/23/99	NA ³	16	35	4.7	2.0	<0.50 ⁴	2.4	0.66	12	11
	03/25/04	2.3	28	60	<1.0	4.6	<1.0	4.9	2.2	7.3	3.1
MW-2	12/23/99	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/04	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-3	12/23/99	NA	70	120	15	8.1	2.8	6.1	2.0	19	16
	03/25/04	6.4	75	120	4.2	11	4.1	8.5	4.5	11	8.5
MW-4	03/25/04	17	110	170	14	8.2	2.3	9.1	7.0	13	23
MW-5	03/25/04	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-6	03/25/04	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-7	03/24/05	<5.0	7.9	16	<1.0	7.9	<1.0	<4.0	<1.0	2.9	<2.0

1. Only compounds that were detected in site groundwater are shown.

2. ug/L: micrograms per Liter.

3. NA: Not Analyzed.

4. < Denotes a value that is "less than" the method detection limit.

Table B-4
Historic Geochemical Parameters
PALCO Company Garage, Scotia, California

Sample Location	Sample Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵
MW-1	03/26/01	1.04	150	54
	07/02/01	0.18	225	26
	09/26/01	0.14	200	179
	12/27/01	0.52	140	138
	03/29/02	0.16	180	102
	06/26/02	0.27	200	119
	03/27/03	1.75	190	227
	03/25/04	0.93	175	261
	03/23/05	0.68	170	-83
	09/22/05	0.94	200	-120
MW-2	03/26/01	0.80	140	98
	07/02/01	0.10	200	13
	09/26/01	0.10	140	158
	12/27/01	0.27	100	154
	03/29/02	0.67	120	98
	06/26/02	0.22	120	166
	03/27/03	0.41	100	214
	03/25/04	0.60	180	276
	03/23/05	0.70	160	-48
	09/22/05	1.08	140	-64
MW-3	03/26/01	0.97	200	0
	07/02/01	0.13	400	-10
	09/26/01	0.38	220	17
	12/27/01	0.26	200	75
	03/29/02	0.29	170	46
	06/26/02	0.61	230	50
	03/27/03	1.06	80	194
	03/25/04	0.89	250	168
	03/23/05	0.91	90	-90
	09/22/05	1.28	180	-138
MW-4	03/26/01	0.85	350	14
	07/02/01	0.08	460	11
	09/26/01	0.10	460	-0.12
	12/27/01	0.30	250	100
	03/29/02	0.46	330	45
	06/26/02	0.24	300	118
	03/27/03	0.30	300	179
	03/25/04	0.53	350	118
	03/23/05	0.66	350	-111
	09/22/05	0.90	350	-145
MW-5	03/25/04	0.65	170	263
	03/23/05	1.76	50	13
	09/22/05	2.05	120	-48
MW-6	03/25/04	2.16	90	285
	03/23/05	0.72	70	108
	09/22/05	0.99	80	32
MW-7	03/23/05	0.72	50	-62
	09/22/05	1.02	180	-131

1. DCO₂: Dissolved Carbon Dioxide, field measured using a field test kit.
2. DO: Dissolved Oxygen, field measured using portable instrumentation.
3. ppm: parts per million
4. ORP: Oxidation-Reduction Potential (Eh) measured using portable instrumentation.
5. mV: millivolts.

Table B-5

**Historic CAM 17 Metals in Groundwater
PALCO Company Garage, Scotia, California**
(in ug/L)¹

Sample Location	Date	As ²	Sb ²	Ba ²	Be ²	Cd ²	Cr ²	Co ²	Cu ²	Fe ²	Mn ²	Mo ²	Ni ²	Ag ²	V ²	Zn ²	Pb ²	Hg ²	Se ²	Tl ²
MW-1	03/25/04	16	<50 ³	43	<1.0	<10	<10	<10	<10	17,000	2,600	<20	<10	<10	<20	<10	<10	<10	<10	<10
MW-2	03/25/04	<10	<50	27	<1.0	<10	<10	<10	<10	6,900	1,500	<20	<20	<10	<10	<20	<10	<10	<10	<10
MW-3	03/25/04	20	<50	6.4	<1.0	<10	<10	<10	<10	14,000	2,000	<20	<20	<10	<10	<20	<10	<10	<10	<10
MW-4	03/25/04	19	<50	31	<1.0	<10	<10	<10	<10	38,000	5,700	<20	<20	<10	<10	<20	<10	<10	<10	<10
MW-5	03/25/04	19	<50	17	<1.0	<10	<10	<10	<10	7,000	3,200	<20	<20	<10	<10	<20	<10	<10	<10	<10
MW-6	03/25/04	<10	<50	6.2	<1.0	<10	<10	<10	<10	<100	250	<20	<20	<10	<10	<20	<10	<10	<10	<10
MW-7	03/24/05	40	<50	14	<1.0	<10	<10	<10	<10	7,600	3,500	30	<20	<10	<10	<20	<10	<10	<10	<10

1. ug/L: micrograms per Liter

2. As: Arsenic, Sb: Antimony, Ba: Barium, Be: Beryllium, Cd: Cadmium, Cr: Chromium, Co: Cobalt, Cu: Copper, Fe: Iron, Mn: Manganese, Mo: Molybdenum, Ni: Nickel, Ag: Silver, V: Vanadium, Zn: Zinc, Pb: Lead, Hg: Mercury, Se: Selenium, Tl: Thallium

3. <: Denotes a value that is "less than" the method detection limit.

Table B-6
Additional Groundwater Analytical Parameters, March 25, 2004
PALCO Company Garage, Scotia, California

Sample Location	Date	Ammonia Nitrogen (mg/L) ¹	Chemical Oxygen Demand (mg/L)	Total Phosphate Phosphorous (mg/L)	Alkalinity (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Dissolved Methane (ug/ml) ²	Nitrogen Total Kjeldahl	Total Nitrogen
MW-1	03/25/04	1.5	39	0.69	270	<0.10 ³	3	360	3.1	NA ⁴	NA
MW-2	03/25/04	3	45	1.5	190	<0.10	22	260	0.076	NA	NA
MW-3	03/25/04	1.5	91	4	250	<0.10	1.9	310	8	NA	NA
MW-4	03/25/04	1.9	170	2	600	<0.10	<0.50	680	18	NA	NA
MW-5	03/25/04	1.7	100	1.9	390	<0.10	11	500	<0.010	NA	NA
MW-6	03/25/04	<0.20	32	0.62	88	<0.10	11	140	0.01	NA	NA
MW-7	03/24/05	1.5	140	2.4	400	<0.10 ³	2.1	510	2.7	3.6	3.6

1. mg/L: milligrams per Liter

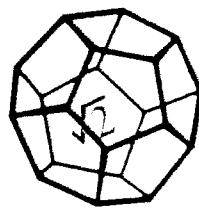
2. ug/ml: micrograms per milliliter

3. < Denotes a value that is "less than" the method detection limit.

4. NA: Not Analyzed

Appendix C

Laboratory Analytical Report



**NORTH COAST
LABORATORIES LTD.**

October 06, 2005

Pacific Lumber-M
P.O. Box 37
125 Main St
Scotia, CA 95565-0037
Attn: Bob Vogt / Environmental Service

Order No.: 0509456
Invoice No.: 53341
PO No.: AFE M 7007
ELAP No. 1247-Expires July 2006

RE: 089097.120, PALCO Company Garage

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	MW-2
01D	MW-2
02A	MW-5
02D	MW-5
03A	MW-6
03D	MW-6
04A	MW-7
04D	MW-7
05A	MW-1
05D	MW-1
06A	MW-3
06D	MW-3
07A	MW-4
07D	MW-4

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: Pacific Lumber-M
Project: 089097.120, PALCO Company Garage
Lab Order: 0509456

CASE NARRATIVE

TPH as Diesel:

Samples MW-1, MW-3, MW-4 and MW-7 contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. The samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

The low surrogate recoveries for samples MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7 may be due to the formation of an emulsion during the sample extraction. The surrogate recoveries for the quality control samples were within the acceptance limits; therefore, the data were accepted.

Gasoline Components/Additives:

The gasoline values for samples MW-1, MW-3, MW-4 and MW-7 include the reported gasoline components and additives in addition to other peaks in the gasoline range.

Some reporting limits were raised for samples MW-3 and MW-4 due to matrix interference.

The relative percent difference (RPD) for the laboratory control samples was above the upper acceptance limit for TBA. This indicates that the results could be variable. Since there were no detectable levels of the analyte in the samples, the data were accepted.

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-2
Lab ID: 0509456-01A

Received: 9/22/05

Collected: 9/22/05 12:30

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		10/3/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		10/3/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/3/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/3/05
Benzene	ND	0.50	µg/L	1.0		10/3/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/3/05
Toluene	ND	0.50	µg/L	1.0		10/3/05
Ethylbenzene	ND	0.50	µg/L	1.0		10/3/05
m,p-Xylene	ND	0.50	µg/L	1.0		10/3/05
o-Xylene	ND	0.50	µg/L	1.0		10/3/05
Surrogate: 1,4-Dichlorobenzene-d4	97.7	80.8-139	% Rec	1.0		10/3/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		10/3/05

Client Sample ID: MW-2

Received: 9/22/05

Collected: 9/22/05 12:30

Lab ID: 0509456-01D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	39.1	70-130	% Rec	1.0	9/28/05	9/29/05

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-5
Lab ID: 0509456-02A

Received: 9/22/05

Collected: 9/22/05 13:30

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		10/3/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		10/3/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/3/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/3/05
Benzene	ND	0.50	µg/L	1.0		10/3/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/3/05
Toluene	ND	0.50	µg/L	1.0		10/3/05
Ethylbenzene	ND	0.50	µg/L	1.0		10/3/05
m,p-Xylene	ND	0.50	µg/L	1.0		10/3/05
o-Xylene	ND	0.50	µg/L	1.0		10/3/05
Surrogate: 1,4-Dichlorobenzene-d4	95.9	80.8-139	% Rec	1.0		10/3/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		10/3/05

Client Sample ID: MW-5

Received: 9/22/05

Collected: 9/22/05 13:30

Lab ID: 0509456-02D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	41.2	70-130	% Rec	1.0	9/28/05	9/29/05

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-6
Lab ID: 0509456-03A

Received: 9/22/05

Collected: 9/22/05 14:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl teri-butyl ether (MTBE)	ND	1.0	µg/L	1.0		10/3/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		10/3/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/3/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/3/05
Benzene	ND	0.50	µg/L	1.0		10/3/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/3/05
Toluene	ND	0.50	µg/L	1.0		10/3/05
Ethylbenzene	ND	0.50	µg/L	1.0		10/3/05
m,p-Xylene	ND	0.50	µg/L	1.0		10/3/05
o-Xylene	ND	0.50	µg/L	1.0		10/3/05
Surrogate: 1,4-Dichlorobenzene-d4	94.3	80.8-139	% Rec	1.0		10/3/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		10/3/05

Client Sample ID: MW-6

Received: 9/22/05

Collected: 9/22/05 14:00

Lab ID: 0509456-03D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	59.7	70-130	% Rec	1.0	9/28/05	9/29/05

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-7
Lab ID: 0509456-04A

Received: 9/22/05

Collected: 9/22/05 14:50

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		10/4/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		10/4/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/4/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/4/05
Benzene	ND	0.50	µg/L	1.0		10/4/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/4/05
Toluene	1.4	0.50	µg/L	1.0		10/4/05
Ethylbenzene	0.74	0.50	µg/L	1.0		10/4/05
m,p-Xylene	2.2	0.50	µg/L	1.0		10/4/05
o-Xylene	0.51	0.50	µg/L	1.0		10/4/05
Surrogate: 1,4-Dichlorobenzene-d4	93.7	80.8-139	% Rec	1.0		10/4/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,600	50	µg/L	1.0		10/4/05

Client Sample ID: MW-7

Received: 9/22/05

Collected: 9/22/05 14:50

Lab ID: 0509456-04D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	230	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	30.1	70-130	% Rec	1.0	9/28/05	9/29/05

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-1
Lab ID: 0509456-05A

Received: 9/22/05

Collected: 9/22/05 14:55

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		10/4/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		10/4/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/4/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/4/05
Benzene	7.1	0.50	µg/L	1.0		10/4/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/4/05
Toluene	1.8	0.50	µg/L	1.0		10/4/05
Ethylbenzene	3.9	0.50	µg/L	1.0		10/4/05
m,p-Xylene	1.9	0.50	µg/L	1.0		10/4/05
o-Xylene	ND	0.50	µg/L	1.0		10/4/05
Surrogate: 1,4-Dichlorobenzene-d4	94.3	80.8-139	% Rec	1.0		10/4/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,300	50	µg/L	1.0		10/4/05

Client Sample ID: MW-1

Received: 9/22/05

Collected: 9/22/05 14:55

Lab ID: 0509456-05D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	240	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	34.9	70-130	% Rec	1.0	9/28/05	9/29/05

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-3
Lab ID: 0509456-06A

Received: 9/22/05

Collected: 9/22/05 15:05

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	3.0	µg/L	1.0		10/4/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		10/4/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/4/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/4/05
Benzene	89	0.50	µg/L	1.0		10/4/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/4/05
Toluene	17	0.50	µg/L	1.0		10/4/05
Ethylbenzene	15	0.50	µg/L	1.0		10/4/05
m,p-Xylene	16	0.50	µg/L	1.0		10/4/05
o-Xylene	5.7	0.50	µg/L	1.0		10/4/05
Surrogate: 1,4-Dichlorobenzene-d4	90.9	80.8-139	% Rec	1.0		10/4/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	5,400	1,000	µg/L	20		10/4/05

Client Sample ID: MW-3

Received: 9/22/05

Collected: 9/22/05 15:05

Lab ID: 0509456-06D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	490	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	36.0	70-130	% Rec	1.0	9/28/05	9/29/05

Date: 06-Oct-05
WorkOrder: 0509456

ANALYTICAL REPORT

Client Sample ID: MW-4
Lab ID: 0509456-07A

Received: 9/22/05

Collected: 9/22/05 15:15

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	6.0	µg/L	1.0		10/4/05
Tert-butyl alcohol (TBA)	ND	25	µg/L	1.0		10/4/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		10/4/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		10/4/05
Benzene	990	25	µg/L	50		10/4/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		10/4/05
Toluene	66	0.50	µg/L	1.0		10/4/05
Ethylbenzene	95	25	µg/L	50		10/4/05
m,p-Xylene	59	0.50	µg/L	1.0		10/4/05
o-Xylene	14	0.50	µg/L	1.0		10/4/05
Surrogate: 1,4-Dichlorobenzene-d4	85.0	80.8-139	% Rec	1.0		10/4/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	13,000	2,500	µg/L	50		10/4/05

Client Sample ID: MW-4

Received: 9/22/05

Collected: 9/22/05 15:15

Lab ID: 0509456-07D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	780	50	µg/L	1.0	9/28/05	9/29/05
Surrogate: N-Tricosane	14.6	70-130	% Rec	1.0	9/28/05	9/29/05

North Coast Laboratories, Ltd.

Date: 06-Oct-05

QC SUMMARY REPORT

CLIENT: Pacific Lumber-M
Work Order: 0509456
Project: 089097.120, PALCO Company Garage

Method Blank

Sample ID: MB 100305	Batch ID: R37259	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 10/3/05 8:28:00 AM				Prep Date:			
Client ID:		Run ID:	ORGCMSS2_051003B	SeqNo:	536263						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0									
Tert-butyl alcohol (TBA)	ND	10									
Di-isopropyl ether (DIPE)	ND	1.0									
Ethyl tert-butyl ether (ETBE)	ND	1.0									
Benzene	ND	0.50									
Tert-amyI methyl ether (TAME)	ND	1.0									
Toluene	ND	0.50									
Ethylbenzene	0.07809	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	0.1209	0.50									
1,4-Dichlorobenzene-d4	0.917	0.10	1.00	0	91.7%	81	139	0			J

Sample ID: MB 100305	Batch ID: R37258	Test Code: GASW-MS	Units: µg/L	Analysis Date: 10/3/05 8:28:00 AM				Prep Date:			
Client ID:		Run ID:	ORGCMSS2_051003A	SeqNo:	536242						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gasoline	ND	50									

Sample ID: MB-14300	Batch ID: 14300	Test Code: TPHDIW	Units: µg/L	Analysis Date: 9/29/05 12:43:03 PM				Prep Date: 9/28/05			
Client ID:		Run ID:	ORGCT_050929A	SeqNo:	535198						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	ND	50									
N-Tricosane	38.7	0.10	50.0	0	77.4%	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 06-Oct-05

CLIENT: Pacific Lumber M
Work Order: 0509456
Project: 089097.120, PALCO Company Garage

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID:	LCS-05637	Batch ID:	R37259	Test Code:	8260OXYW	Units:	µg/L	Analysis Date: 10/3/05 5:27:00 AM			Prep Date:	
Client ID:				Run ID:	ORGCMSS2_051003B			SeqNo:	536261			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)		18.95	1.0	20.0	0	94.7%	80	120	0	0	0	S
Tert-butyl alcohol (TBA)		371.7	10	400	0	92.9%	25	162	0	0	0	S
Di-isopropyl ether (DIPE)		19.23	1.0	20.0	0	96.1%	80	120	0	0	0	S
Ethyl tert-butyl ether (ETBE)		18.64	1.0	20.0	0	93.2%	77	120	0	0	0	S
Benzene		20.42	0.50	20.0	0	102%	78	117	0	0	0	S
Tert-amyl methyl ether (TAME)		17.81	1.0	20.0	0	89.1%	64	136	0	0	0	S
Toluene		19.52	0.50	20.0	0	97.6%	80	120	0	0	0	S
Ethylbenzene		20.34	0.50	20.0	0	102%	80	120	0	0	0	S
m,p-Xylene		40.18	0.50	40.0	0	100%	80	120	0	0	0	S
o-Xylene		19.82	0.50	20.0	0	99.1%	80	120	0	0	0	S
1,4-Dichlorobenzene-d4		1.12	0.10	1.00	0	112%	81	139	0	0	0	S
Sample ID:	LCSD-05637	Batch ID:	R37259	Test Code:	8260OXYW	Units:	µg/L	Analysis Date: 10/4/05 2:29:00 AM			Prep Date:	
Client ID:				Run ID:	ORGCMSS2_051003B			SeqNo:	536273			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)		18.38	1.0	20.0	0	91.9%	80	120	19.0	3.07%	20	S
Tert-butyl alcohol (TBA)		267.8	10	400	0	67.0%	25	162	372	32.5%	20	R
Di-isopropyl ether (DIPE)		18.44	1.0	20.0	0	92.2%	80	120	19.2	4.16%	20	S
Ethyl tert-butyl ether (ETBE)		19.15	1.0	20.0	0	95.7%	77	120	18.6	2.70%	20	S
Benzene		20.00	0.50	20.0	0	100%	78	117	20.4	2.08%	20	S
Tert-amyl methyl ether (TAME)		17.33	1.0	20.0	0	86.7%	64	136	17.8	2.74%	20	S
Toluene		19.18	0.50	20.0	0	95.9%	80	120	19.5	1.76%	20	S
Ethylbenzene		19.69	0.50	20.0	0	98.4%	80	120	20.3	3.25%	20	S
m,p-Xylene		40.05	0.50	40.0	0	100%	80	120	40.2	0.318%	20	S
o-Xylene		19.75	0.50	20.0	0	98.7%	80	120	19.8	0.364%	20	S
1,4-Dichlorobenzene-d4		1.08	0.10	1.00	0	108%	81	139	1.12	3.76%	20	S

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pacific Lumber-M
Work Order: 0509456
Project: 089097.120, PALCO Company Garage

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID:	LCS-05638	Batch ID:	R37258	Test Code:	GASW-MS	Units:	µg/L	Analysis Date:	10/3/05 6:58:00 AM	Prep Date:			
Client ID:		Run ID:		Run ID:	ORGCMS2_051003A			SeqNo:	536240				
Analyte		Result		Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline		1,036	50	1,000	0	0	104%	80	120	0	0		
Sample ID:	LCSD-05638	Batch ID:	R37258	Test Code:	GASW-MS	Units:	µg/L	Analysis Date:	10/4/05 2:58:00 AM	Prep Date:			
Client ID:		Run ID:		Run ID:	ORGCMSS2_051003A			SeqNo:	536252				
Analyte		Result		Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline		1,037	50	1,000	0	0	104%	80	120	1,040	0.145%	20	
Sample ID:	LCS-14300	Batch ID:	14300	Test Code:	TPHDIW	Units:	µg/L	Analysis Date:	9/29/05 10:42:46 AM	Prep Date:			
Client ID:		Run ID:		Run ID:	ORGCT_050929A			SeqNo:	535195				
Analyte		Result		Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		535.3	50	500	0	0	107%	67	120	0	0		
N-Tricosane		54.6	0.10	50.0	0	0	109%	70	130	0	0		
Sample ID:	LCSD-14300	Batch ID:	14300	Test Code:	TPHDIW	Units:	µg/L	Analysis Date:	9/29/05 11:02:42 AM	Prep Date:			
Client ID:		Run ID:		Run ID:	ORGCT_050929A			SeqNo:	535196				
Analyte		Result		Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		500.1	50	500	0	0	100%	67	120	535	6.81%	15	
N-Tricosane		56.6	0.10	50.0	0	0	113%	70	130	54.6	3.60%	15	

Qualifiers:

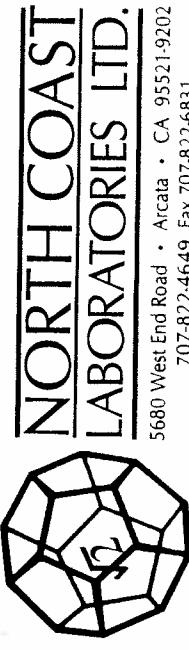
ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits



NORTH COAST
LABORATORIES LTD.

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707-822-4649 Fax 707-822-6631

Chain of Custody

Attention: Beth Vogt

Results & Invoice to: PALCO

Address: P.O. Box 37

Phone: (707) 822-4649

Copies of Report to: Sales Manager

David Paine

Project Manager

ANALYSIS PRESERVATIVE CONTAINER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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LABORATORY NUMBER: 0909466

TAT: 24 Hr 48 Hr 5 Day 5-7 Day
 STD (2-3 Wk) Other: _____

PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms
Preliminary: FAX Verbal By: _____
Final Report: FAX Verbal By: _____

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
d—Na₂S₂O₃; e—NaOH; f—C₂H₃O₂; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

EDF

SAMPLE DISPOSAL

NCL Disposal of Non-Contaminated
 Return Pickup

CHAIN OF CUSTODY SEALS Y/N/NA

SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

PROJECT INFORMATION			
Project Number:	<u>0990999.120</u>		
Project Name:	<u>PALCO Company Garage</u>		
Purchase Order Number:	<u>AFFE M 2009</u>		

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*
	<u>MW-2</u>	<u>9/24/09</u>	<u>1230</u>	<u>GW</u>
	<u>MW-5</u>	<u>1330</u>		
	<u>MW-6</u>	<u>1400</u>		
	<u>MW-7</u>	<u>1450</u>		
	<u>MW-8</u>	<u>1555</u>		
	<u>MW-9</u>	<u>1300</u>		
	<u>MW-10</u>	<u>1505</u>		

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
<u>David Paine David P. Paine</u>	<u>9/24/09</u>	<u>J. Wongdon</u>	<u>9/24/09</u>

SAMPLE DISPOSAL	
<input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated	<input type="checkbox"/>

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT